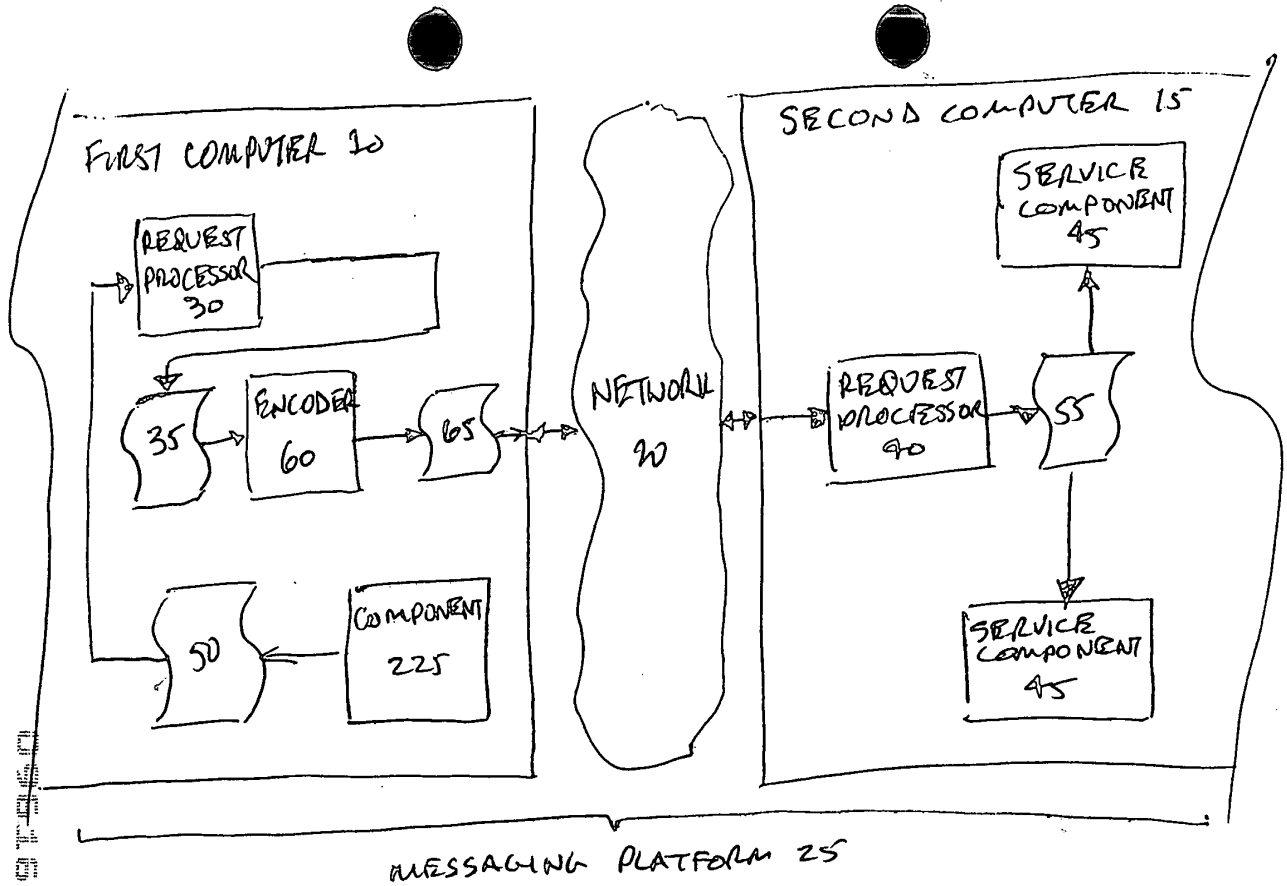

FIRST COMPUTER 10
REQUEST PROCESSOR 30
35
ENCODER 60
65
50
COMPONENT 225
NETWORK 20
SECOND COMPUTER 15
SERVICE COMPONENT 45
REQUEST PROCESSOR 90
55
SERVICE COMPONENT 45
MESSAGING PLATFORM 25

FIG. 1

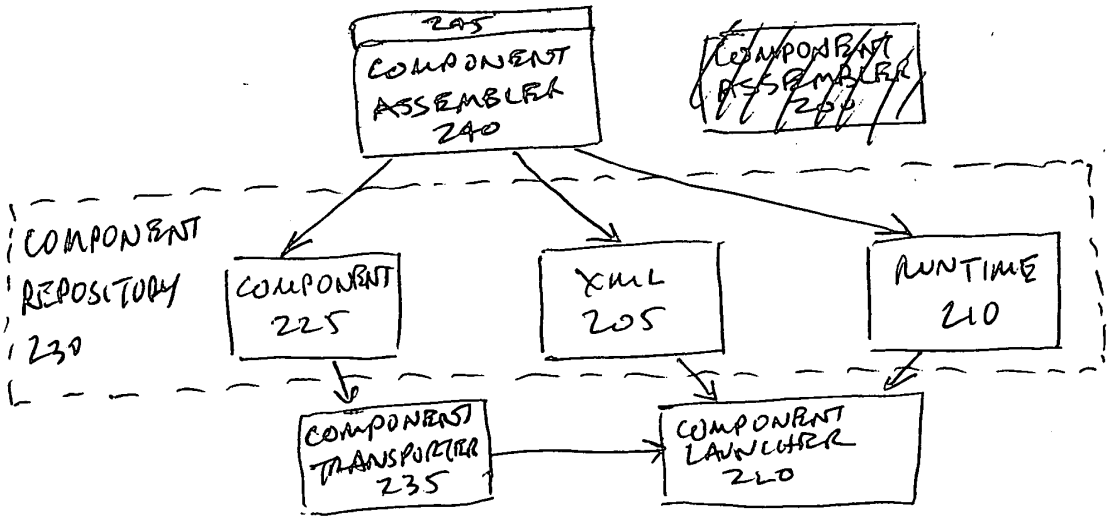

245
COMPONENT ASSEMBLER 240
COMPONENT REPOSITORY 230
COMPONENT 225
XML 205
RUNTIME 210
COMPONENT TRANSPORTER 235
COMPONENT LAUNCHER 220

FIG. 3

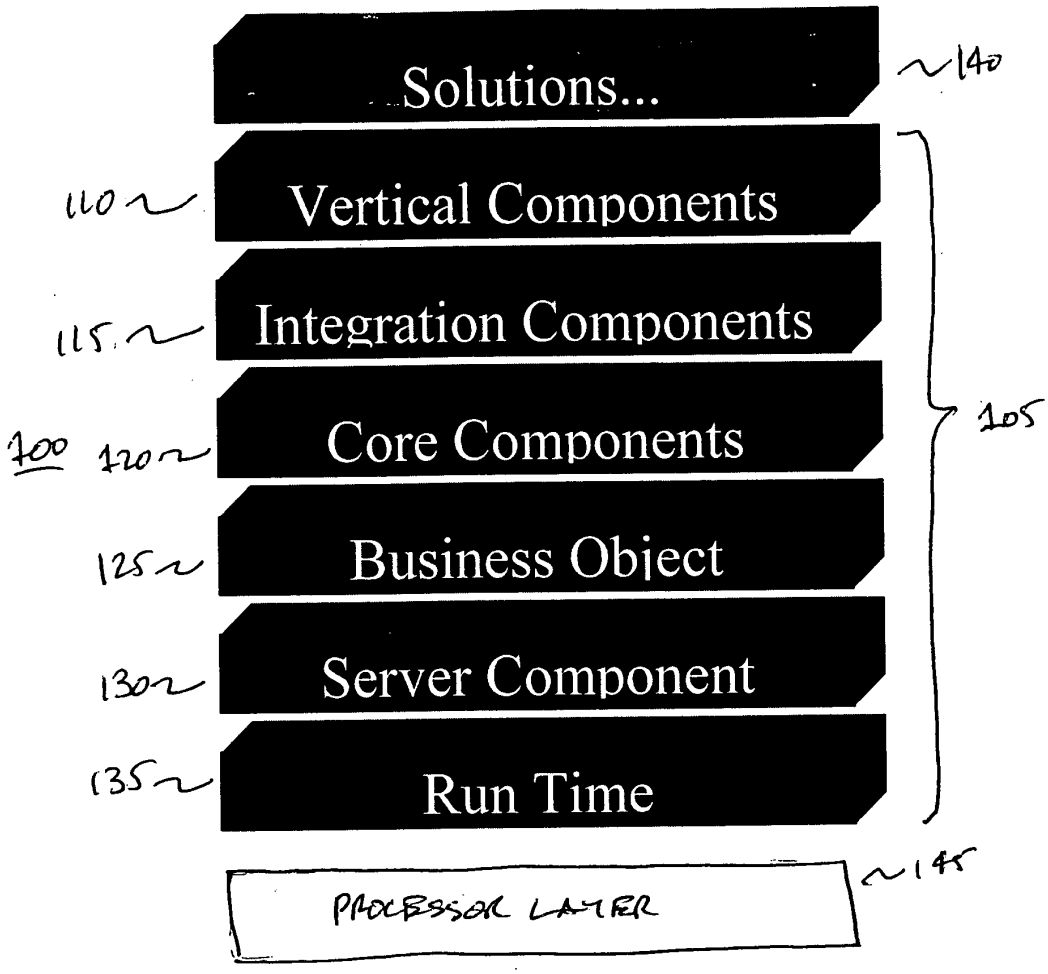
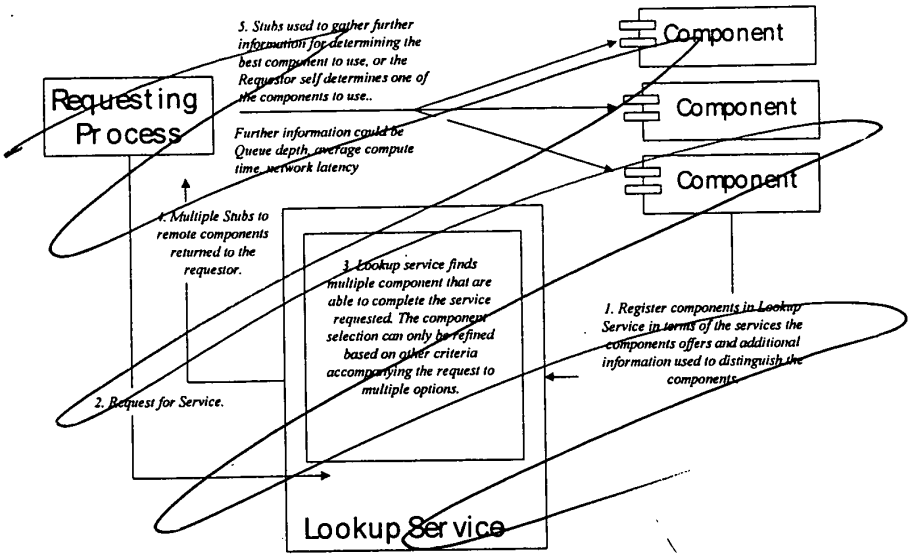

Solutions...
140
Vertical Components
110
Integration Components
115
Core Components
100
120
Business Object
125
Server Component
130
Run Time
135
105
PROCESSOR LAYER
145

FIG.2


Requesting Process
Component
Component
Component
Lookup Service
5. Stubs used to gather further information for determining the best component to use, or the Requestor self determines one of the components to use..
Further information could be Queue depth, average compute time, network latency
4. Multiple Stubs to remote components returned to the requestor.
3. Lookup service finds multiple component that are able to complete the service requested. The component selection can only be refined based on other criteria accompanying the request to multiple options.
2. Request for Service.
1. Register components in Lookup Service in terms of the services the components offers and additional information used to distinguish the components.

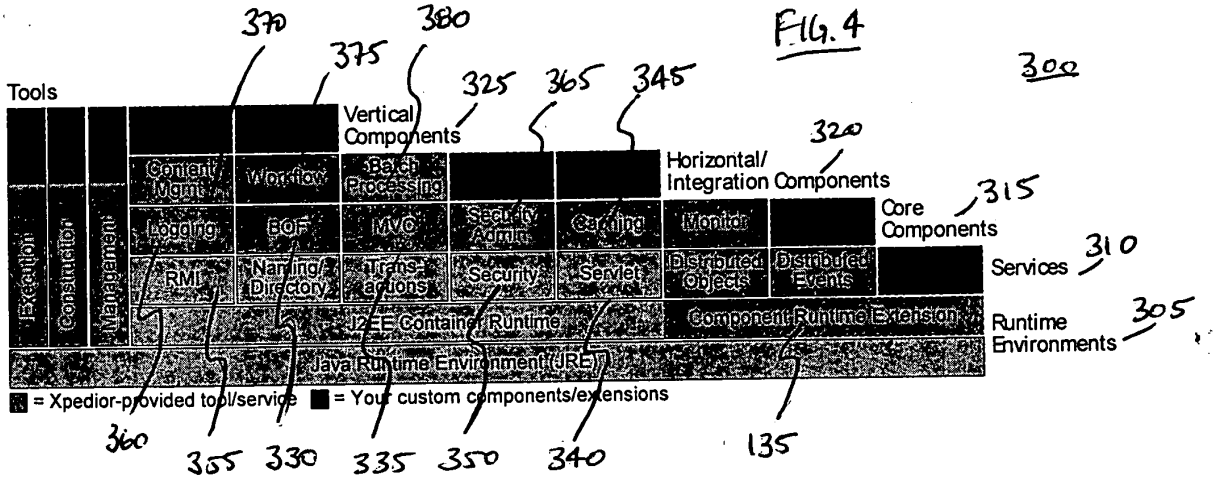

Tools
Vertical Components
Horizontal/ Integration Components
Core Components
Services
Runtime Environments
Exception
Configuration
Management
Content Mgmt
Workflow
Batch Processing
Logging
EOF
MVC
Security Admin
Caching
Monitor
RMI
Naming/ Directory
Trans-actions
Security
Servlet
Distributed Object
Distributed Events
J2EE Container Runtime
Component Runtime Extension
Java Runtime Environment (JRE)
= Xpedior-provided tool/service
= Your custom components/extensions
370
375
380
325
365
345
320
315
310
305
360
355
330
335
350
340
135

Fig. 4

300

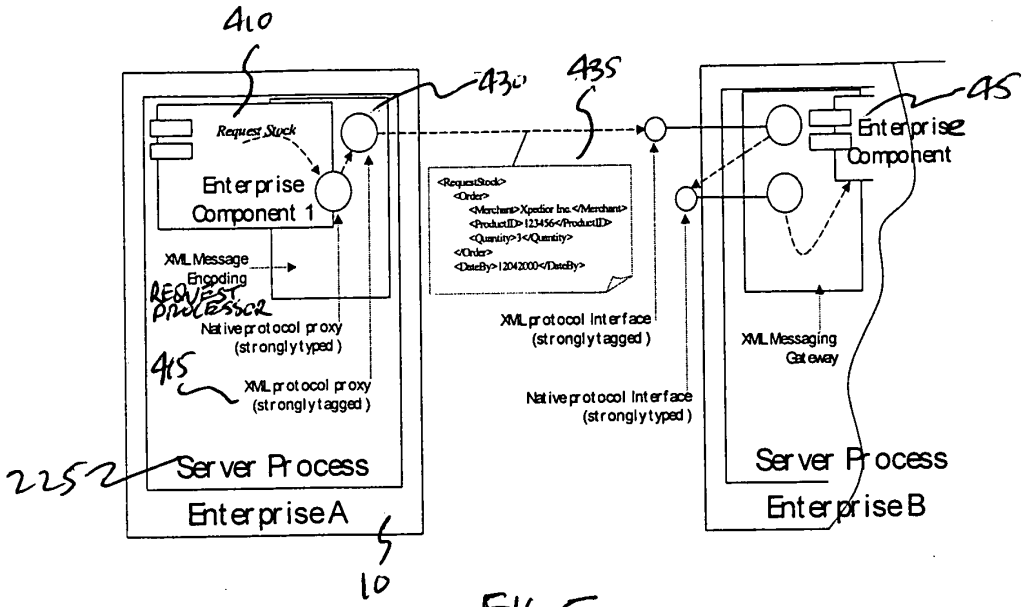

410
430
435
45
Request Stock
Enterprise Component 1
XML Message Encoding
REQUEST PROCESSOR
Native protocol proxy (strongly typed)
415
XML protocol proxy (strongly tagged)
225
Server Process
Enterprise A
10
<RequestStock>
<Order>
<Merchant>Xpediar Inc.</Merchant>
<ProductID>123456</ProductID>
<Quantity>1</Quantity>
</Order>
<DateBy>12042000</DateBy>
XML protocol Interface (strongly tagged)
Native protocol Interface (strongly typed)
Enterprise Component
XML Messaging Gateway
Server Process
Enterprise B

FIG. 5

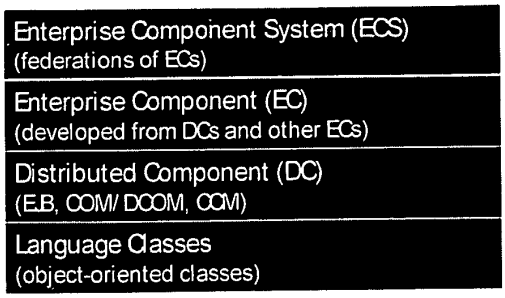


FIG. 8

FIG. 2 shows granularity of structures in the preferred embodiment;

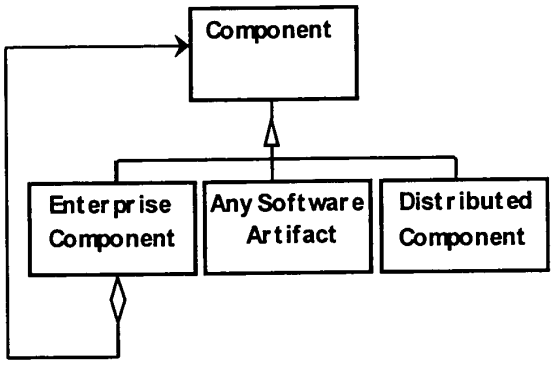


FIG. 6

FIG. 3 shows granularity of structures in the preferred embodiment.

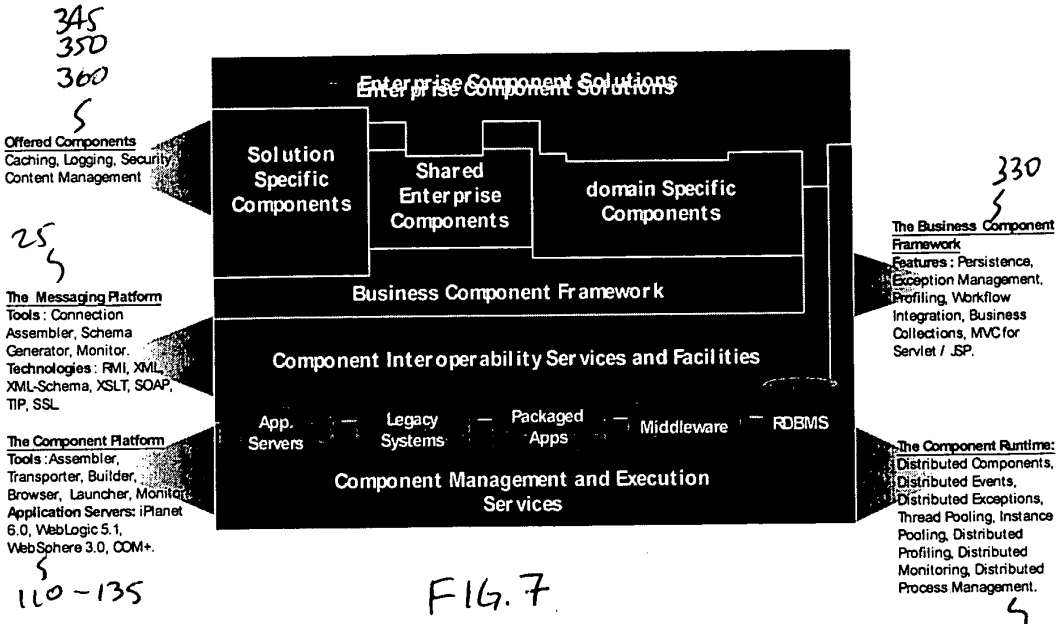


FIG. 7

FIG. 1 is a diagram of elements and component layers of Enterprise Component Platform in the preferred embodiment;

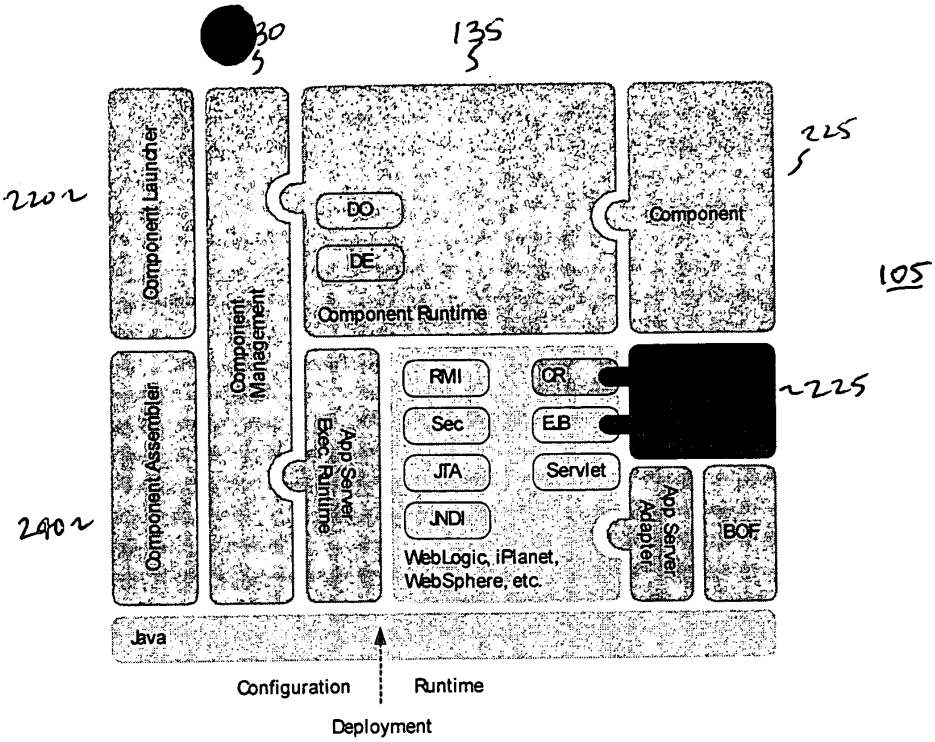
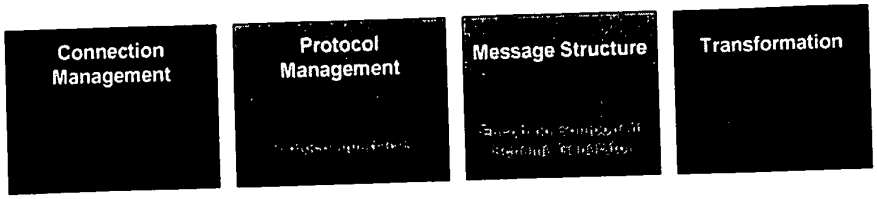


FIG. 4 is a block diagram of elements of a component platform according to the preferred embodiment.

FIG. 9

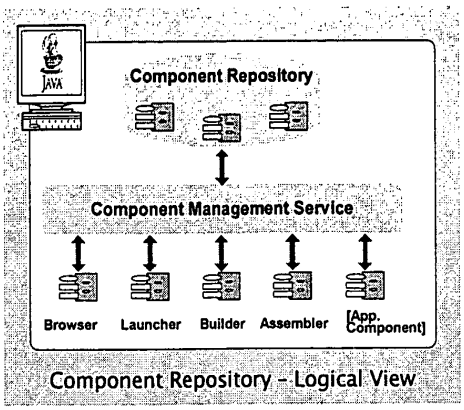


25

FIG. 5 is a block diagram of elements of a messaging platform according to the preferred embodiment

FIG. 10

0604600.0574600



230

FIG. 11

FIG 6 The component repository

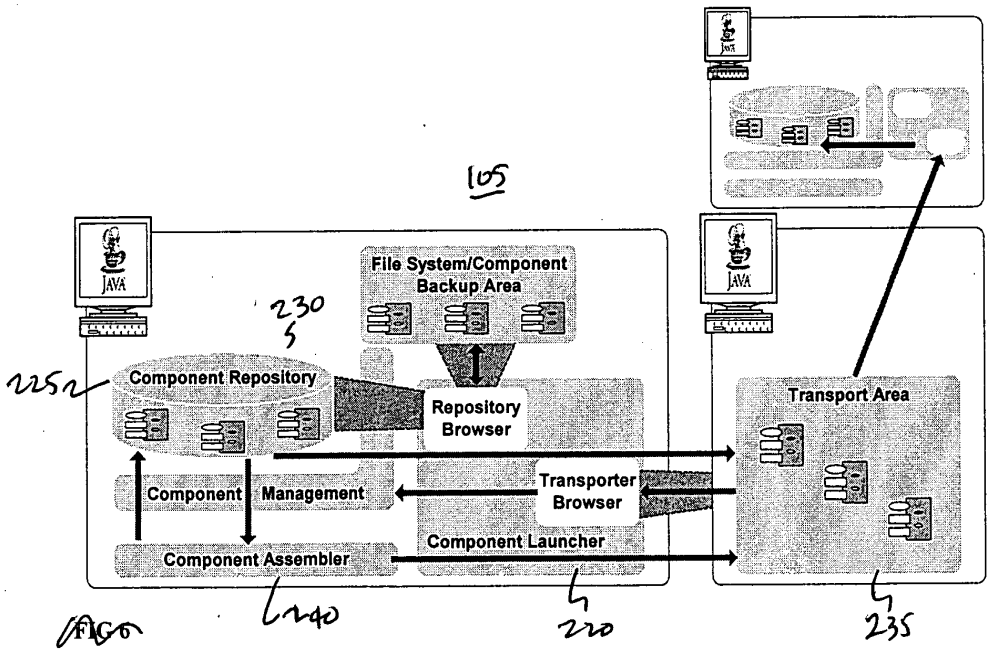


FIG 6

FIG. 12